



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0789

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: PDC Facilities inc.

Manufacturer's Technical Representative: Jonathan Carlson

Mailing Address: 700 Walnut Ridge Dr, Hartland, WI 53029

Telephone: (262) 367-7961

Email: jcarlson@pdcbiz.com

Product Information

Product Name: Electrical Control Panels on Life Safety/Critical Branch

Product Type: Lighting Control Panels

Product Model Number: PDC 1-06-000120, 1-06-000117, 1-06-000117A, 1-06-000122, 1-06-000116, 1-06-000119, 1-06-000121

General Description: White Lighting and Colored Accent Lighting control racks

Mounting Description: Flush wall mounted rigid, and Unistrut wall mounted rigid - see UUT sheets

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: PDC Facilities inc.

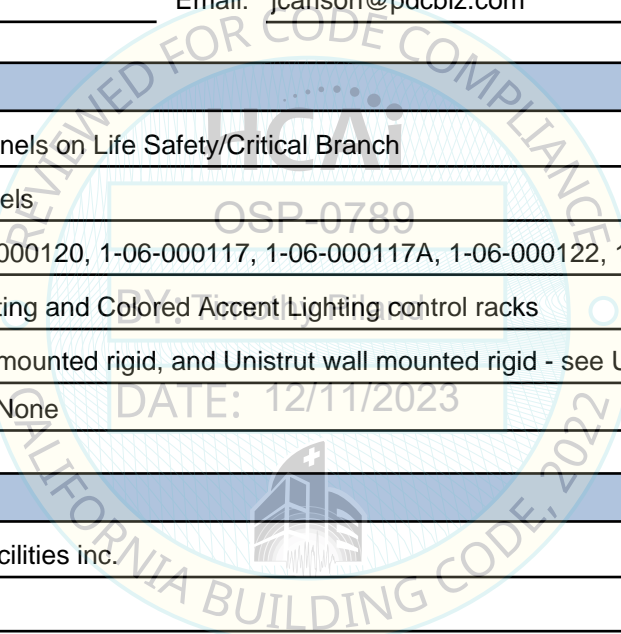
Contact Person: Jonathan Carlson

Mailing Address: 700 Walnut Ridge Dr, Hartland, WI 53029

Telephone: (262) 367-7961

Email: joncarlson5@gmail.com

Title: Cree, Inc.





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

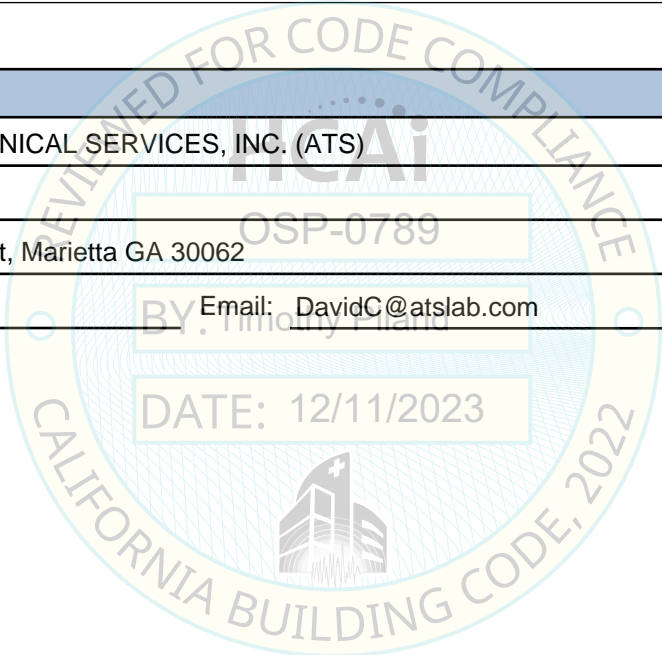
Company Name: MRH STRUCTURAL ENGINEERS
Name: Mohammad Hariri California License Number: S3545
Mailing Address: 3400 Irvine Ave, Suite 101, Newport Beach, CA 92660
Telephone: (714) 633-6302 Email: MRH@MRHSE.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: APPLIED TECHNICAL SERVICES, INC. (ATS)
Contact Person: David Common
Mailing Address: 1049 Triad Court, Marietta GA 30062
Telephone: (888) 287-5227 Email: DavidC@atslab.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.875

SDS (Design spectral response acceleration at short period, g) = 2.5

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

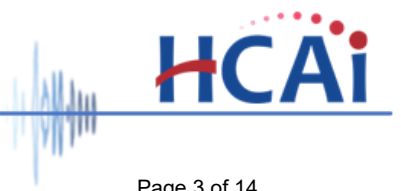
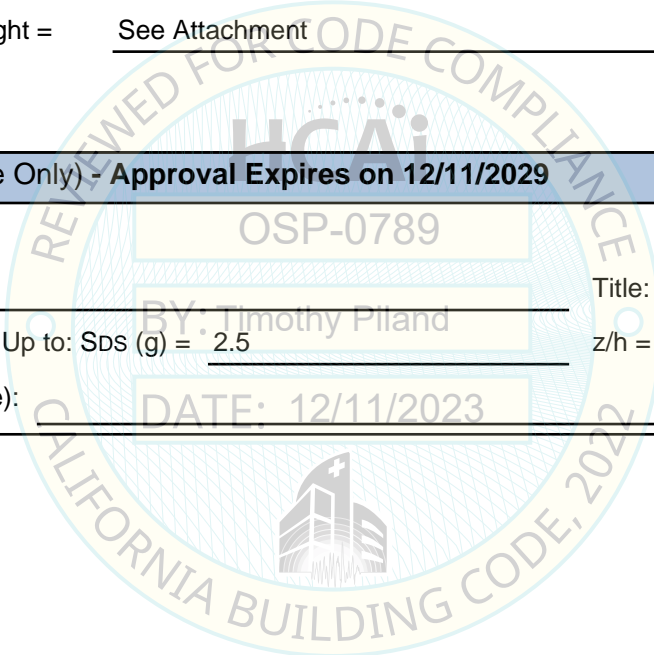
HCAI Approval (For Office Use Only) - Approval Expires on 12/11/2029

Date: 12/11/2023

Name: Timothy Piland Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = 2.5 z/h = 1

Condition of Approval (if applicable): DATE: 12/11/2023



Components							Sub-Components							UUTs Interpolated Extrapolated	
No.	ID	Product Line	Weight	Dimensions			Part Number	Part Description	Manufacturer	Model	Weight	Dimensions			
				Width	Depth	Height						Width	Depth		Height
1	1-06-000120	Caring MR Suite Lighting Control Rack RGB w/ 2-12 Channel MZPS Controllers.	108.0 Lbs	23-7/16"	18-9/16"	20"	a. 1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	20.0 Lbs	19.00"	13.58"	3.48"	Extrapolated
							b. 1-05-000003	12 Channel MZPS (x2)	PDC Facilities, Inc.	1-05-000003	26.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. -	-	-	-	0 lbs	0.00"	0.00"	0.00"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	9U	61.0 Lbs	22.25"	17.88"	20.00"	
2	1-06-000117	Caring MR Suite Lighting Control Rack RGB w/ 1-12 Channel MZPS Controllers.	124.3 Lbs	23-7/16"	18-9/16"	20"	a. 1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	20.0 Lbs	19.00"	13.58"	3.48"	Extrapolated
							b. 1-05-000003	12 Channel MZPS (x1)	PDC Facilities, Inc.	1-05-000003	13.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	9U	61.0 Lbs	22.25"	18.58"	20.00"	
3	1-06-000117A	Caring MR Suite Lighting Control Rack RGB w/ 1-12 Channel MZPS Controllers + DCLC	140.3 Lbs	23-7/16"	18-9/16"	20"	a. 1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	20.0 Lbs	19.00"	13.58"	3.48"	UUT-1a and UUT-1b
							b. 1-05-000003	12 Channel MZPS (x1)	PDC Facilities, Inc.	1-05-000003	13.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. 1-05-000089	DCLC	PDC Facilities, Inc.	1-05-000089	16.0 Lbs	16.53"	13.60"	3.26"	
							f. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	9U	61.0 Lbs	22.25"	18.58"	21.75"	
4	1-06-000122	Caring MR Suite Lighting Control Rack w/ 3-12 Channel MZPS Controllers.	131.3 Lbs	23-7/16"	18-9/16"	20"	a. -	-	-	-	0lbs	0.00"	0.00"	0.00"	Extrapolated
							b. 1-05-000003	12 Channel MZPS (x3)	PDC Facilities, Inc.	1-05-000003	40.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	9U	61.0 Lbs	22.25"	18.58"	20.00"	
5	1-06-000116	Caring MR Suite Lighting Control Rack RGB w/ 2-12 Channel MZPS Controllers.	137.3 Lbs	23-7/16"	18-9/16"	20"	a. 1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	20.0 Lbs	19.00"	13.58"	3.48"	Extrapolated
							b. 1-05-000003	12 Channel MZPS (x2)	PDC Facilities, Inc.	1-05-000003	26.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	9U	61.0 Lbs	22.25"	18.58"	20.00"	
6	1-06-000119	Caring MR Suite Lighting Control Rack DCLC w/ 3-12 Channel MZPS Controllers.	151.0 Lbs	23-7/16"	18-9/16"	21-3/4"	a. 1-05-000089	DCLC	PDC Facilities, Inc.	1-05-000089	16.0 Lbs	16.53"	13.60"	3.26"	Interpolated
							b. 1-05-000003	12 Channel MZPS (x3)	PDC Facilities, Inc.	1-05-000003	40.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	10U	64.7 Lbs	22.25"	18.58"	21.75"	
7	1-06-000121	Caring MR Suite Lighting Control Rack RGB w/ 3-12 Channel MZPS Controllers.	155.0 Lbs	23-7/16"	18-9/16"	21-3/4"	a. 1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	20.0 Lbs	19.00"	13.58"	3.48"	UUT-2a and UUT-2b
							b. 1-05-000003	12 Channel MZPS (x3)	PDC Facilities, Inc.	1-05-000003	40.0 Lbs	19.00"	15.73"	1.65"	
							c. 3-23-000964	5 Port Network Switch	Netgear	3-23-000964	0.57 Lbs	3.70"	3.90"	1.10"	
							d. 3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	29.7 Lbs	17.50"	15.60"	1.75"	
							e. Rack Frame	12 GA. Steel Enclosure	PDC Facilities, Inc.	10U	64.7 Lbs	22.25"	18.58"	21.75"	

Sub-Component Certification Table

Part Number	Part Description	Manufacture	Model	Material	Weight	Dimensions			Tested, Interpolated, extrapolated
						Width	Depth	Height	
1-05-000085	RGB Linear DCLC	PDC Facilities, Inc.	1-05-000085	18 GA. Steel	20.0 Lbs	19.00"	13.58"	3.48"	UUT-1a
									UUT-1b
									UUT-2a
									UUT-2a
1-05-000089	DCLC	PDC Facilities, Inc.	1-05-000089	18 GA. Steel	16.0 Lbs	16.53"	13.60"	3.26"	UUT-1a
									UUT-1b
1-05-000003	12 Channel MZPS	PDC Facilities, Inc.	1-05-000003	18 GA. Steel	13.0 Lbs	19.00"	15.73"	1.65"	UUT-1a
									UUT-1b
									UUT-2a
									UUT-2a
3-23-000964	5 Port Network Switch	Netgear	3-23-000964	See Spec. Sheet	0.6 Lbs	3.70"	3.90"	1.10"	UUT-1a
									UUT-1b
									UUT-2a
									UUT-2a
3-23-000104	UPS Battery Back Up	Cyber Power	3-23-000104	See Spec. Sheet	29.7 Lbs	17.50"	15.60"	1.75"	UUT-1a
									UUT-1b
									UUT-2a
									UUT-2a
Rack Frame-9U	Enclosure	PDC Facilities, Inc.	9U	12 GA. Steel	61.0 Lbs	22.25"	18.58"	20.00"	UUT-1a
									UUT-1b
Rack Frame-10U	Enclosure	PDC Facilities, Inc.	10U	12 GA. Steel	64.7 Lbs	22.25"	18.58"	21.75"	UUT-2a
									UUT-2a

UNIT UNDER TEST (UUT) Summary Sheet

UUT-1a

ATS Job Number: 412097

Test Laboratory: Applied Technical Services (Ref No. 412097, UUT-1 and UUT-2)

Manufacturer: PDC Facilities

Product Line: Caring MR Suite Lighting Control Rack

Model Number: 1-06-000117A

Product Construction Summary:

9U Rack Frame consists of 12GA Cold Rolled powder coated steel top and bottom, and 14GA Cold Rolled powder coated steel Vertical Rails

Options / Component Summary:

UUT-1a Consists of (1) RGB Linear lighting controller for accent lighting, (1) 12 Channel MZPS white lighting controller, (1) DCLC White Lighting Controller, Netgear Ethernet Switch, and Cyperpower UPS Battery Backup.

Note: UUT-1a was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
141.0	18 ⁹ / ₁₆	23 ⁷ / ₁₆	20	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC2022	AC156	2.50	1.0	1.5	4	3	1.675	0.675

Unit Mounting Description:

UUT-1a was wall-mounted with (4) 1/2" grade 5 bolts to a vertical aluminum plate supported by a steel frame.



Views of UUT-1a

UNIT UNDER TEST (UUT) Summary Sheet

UUT-1b

ATS Job Number: 412097

Test Laboratory: Applied Technical Services (Ref No. 412097, UUT-1 and UUT-2)

Manufacturer: PDC Facilities

Product Line: Caring MR Suite Lighting Control Rack

Model Number: 1-06-000117A

Product Construction Summary:

9U Rack Frame consists of 12GA Cold Rolled powder coated steel top and bottom, and 14GA Cold Rolled powder coated steel Vertical Rails

Options / Component Summary:

UUT-1b Consists of (1) RGB Linear lighting controller for accent lighting, (1) 12 Channel MZPS white lighting controller, (1) DCLC White Lighting Controller, Netgear Ethernet Switch, and Cyperpower UPS Battery Backup.

Note: UUT-1b was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

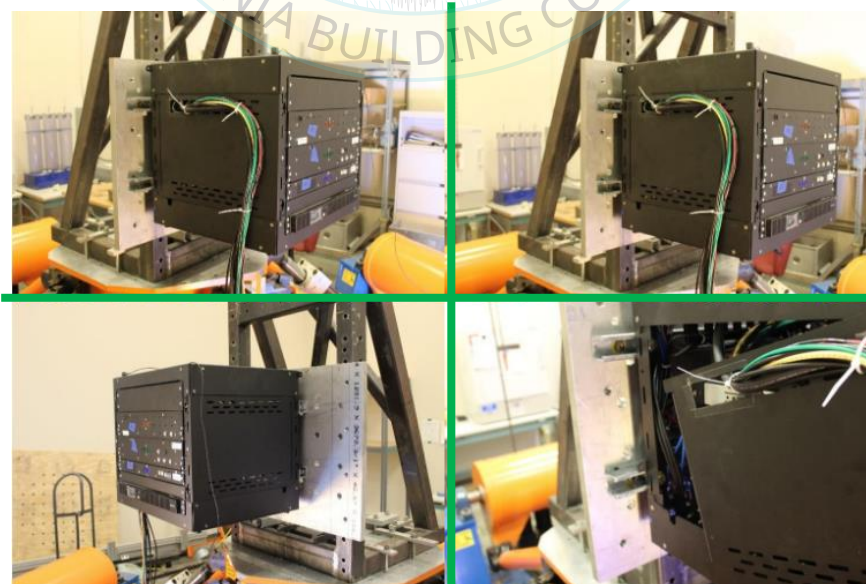
Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
141.0	18 ⁹ / ₁₆	23 ⁷ / ₁₆	20	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC2022	AC156	2.50	1.0	1.5	4	3	1.675	0.675

Unit Mounting Description:

UUT-1b was wall-mounted with (4) 1/2" grade 5 bolts to a horizontal Unistrut which is connected to a vertical aluminum plate supported by a steel frame.



Views of UUT-1b

UNIT UNDER TEST (UUT) Summary Sheet

UUT-2a

ATS Job Number: 412097

Test Laboratory: Applied Technical Services (Ref No. 412097, UUT-1 and UUT-2)

Manufacturer: PDC Facilities

Product Line: Caring MR Suite Lighting Control Rack

Model Number: 1-06-000121

Product Construction Summary:

10U Rack Frame consists of 12GA Cold Rolled powder coated steel top and bottom, and 14GA Cold Rolled powder coated steel Vertical Rails

Options / Component Summary:

UUT-2a Consists of (1) RGB Linear lighting controller for accent lighting, (3) 12 Channel MZPS white lighting controller, Netgear Ethernet Switch, and Cyperpower UPS Battery Backup.

Note: UUT-2a was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
155.0	18 ⁹ / ₁₆	23 ⁷ / ₁₆	21 ³ / ₄	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC2022	AC156	2.50	1.0	1.5	4	3	1.675	0.675

Unit Mounting Description:

UUT-2a was wall-mounted with (4) 1/2" grade 5 bolts to a vertical aluminum plate supported by a steel frame.



Views of UUT-2a

UNIT UNDER TEST (UUT) Summary Sheet

UUT-2b

ATS Job Number: 412097

Test Laboratory: Applied Technical Services (Ref No. 412097, UUT-1 and UUT-2)

Manufacturer: PDC Facilities

Product Line: Caring MR Suite Lighting Control Rack

Model Number: 1-06-000121

Product Construction Summary:

10U Rack Frame consists of 12GA Cold Rolled powder coated steel top and bottom, and 14GA Cold Rolled powder coated steel Vertical Rails

Options / Component Summary:

UUT-2b Consists of (1) RGB Linear lighting controller for accent lighting, (3) 12 Channel MZPS white lighting controller, Netgear Ethernet Switch, and Cyperpower UPS Battery Backup.

Note: UUT-2 was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

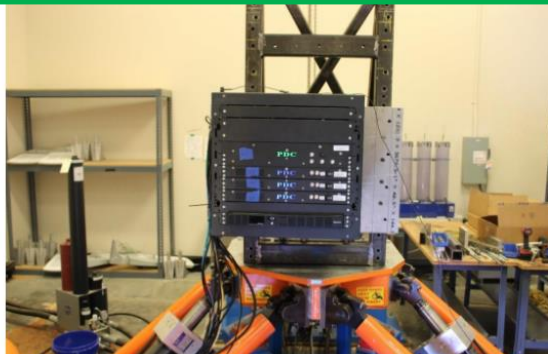
Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
155.0	18 ⁹ / ₁₆	23 ⁷ / ₁₆	21 ³ / ₄	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC2022	AC156	2.50	1.0	1.5	4	3	1.675	0.675

Unit Mounting Description:

UUT-2b was wall-mounted with (4) 1/2" grade 5 bolts to a horizontal Unistrut which is connected to a vertical aluminum plate supported by a steel frame.



Views of UUT-2b

Caring MR Suite® Lighting Control Rack

RGB with 1 - 12 Channel MZPS Controllers



UUT-1a,b
1-06-00017A w/DCLC on page 3

Product Description

The Caring MR Suite® Lighting Control Rack is designed for Caring MR Suite® applications. The Caring MR Suite® Lighting Control Rack is comprised of a 12 Channel Lighting Controllers (1-05-000003- 12 Channel MZPS) and an RGB Linear Controller with DCLC Link (1-05-000085 – RGB Linear). Contains integrated UPS Battery Back Up for white lighting. All drive circuitry employs linear regulation and no pulse width modulation (PWM*).

Features	
Wall Mount	Customer Controlled Lighting
12 Channel Configurable Lighting	Integrated UPS Battery Back Up
PDC Door Activation	Lights Override (optional)
RGB Accent Lighting	Remote Connection (Hospital Network Access Required)

Mechanical				
	Minimum	Typical	Maximum	Units
Overall Dimensions Apx.		23 7/16 x 18 3/16 x 20		inches
Enclosure		Enclosed Steel frame		-
Product Weight Apx.	-	125	-	lbs

Electrical Input				
	Minimum	Typical	Maximum	Units
Input Voltage	100	-	240	Vac
Input Current	-	-	13	A
Input Power	-	-	1300	W
Input Frequency	47	-	63	Hz
Heat	-	-	4436	BTU/h
Power Factor at 120Vac Input	0.95	-	-	-
Inrush Current at 120Vac Input	-	-	40	A
UPS Backup Runtime	90	-	-	Minutes

Note: Light fixture runtime is dependent on following the UPS manufacturers battery maintenance schedule
 Note: UPS Backup not tested/Listed to UL 924 Standard For Emergency Lighting And Power Equipment
 Note: Runtime based on two 12 Channel outputs running at 1/2 power
 Note: See site installation drawings for locations of emergency channels

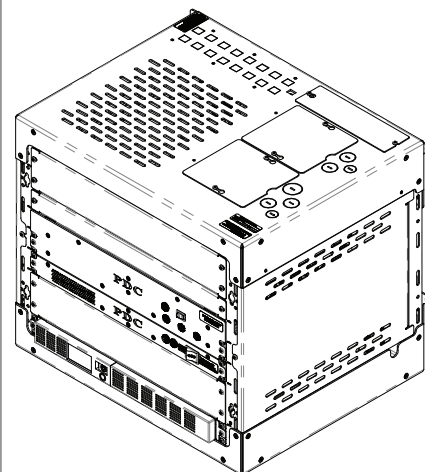
Electrical Output per Channel (12 total) - 1-05-000003 - 12 Channel MZPS				
	Minimum	Typical	Maximum	Units
Output Voltage	12	-	48	Vdc
Output Current	665	700	735	mA
Output Power	-	-	33.3	W

Electrical Output per Channel (max. 3 Channels) - 1-05-000085 RGB Linear				
	Minimum	Typical	Maximum	Units
Output Voltage	10	12	13.5	Vdc
Output Current (Constant Current)	-	15 x 1 Output	-	A
Output Power	-	-	188	W

Compliance				
	Minimum	Typical	Maximum	Units
1-05-000003- 12 Channel MZPS	-	-	ETL LISTED	UL 2108 CSA C22.2 #250.2
1-05-000085 – RGB Linear	-	-	ETL Listed	UL 2108 CSA C22.2 #250.2
RoHS	-	Pending	-	2011/65/EU

1-06-000117

- Includes the following:
- 1-05-000085 – RGB Linear
 - 1-05-000003 - 12 Channel MZPS
 - 3-23-000964 - 5 Port Network Switch
 - 3-23-000104 - UPS Battery Back Up



PDC Specification Submittal

Job Name:	
Job Number:	
Model Numbers:	Fixture Type:

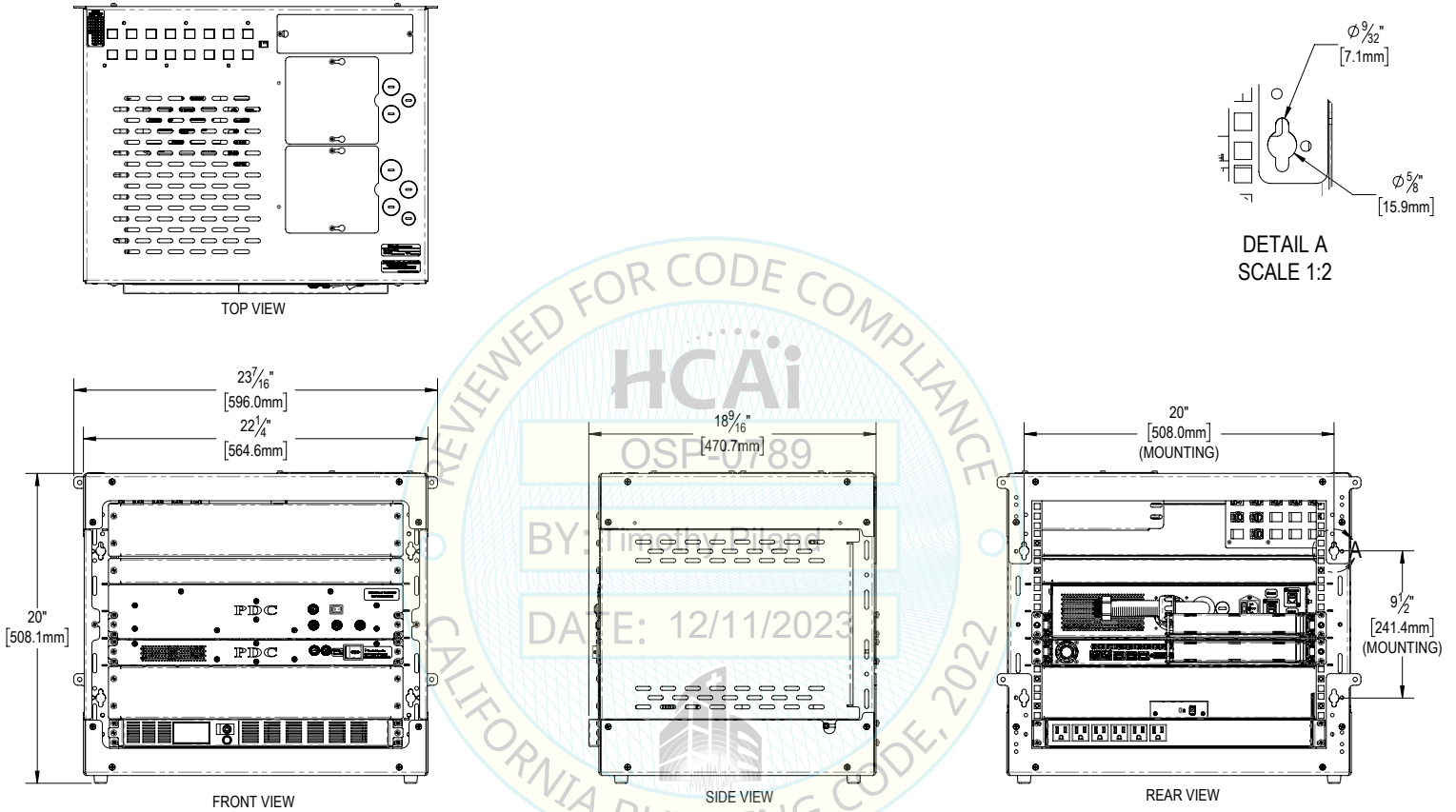
Environmental

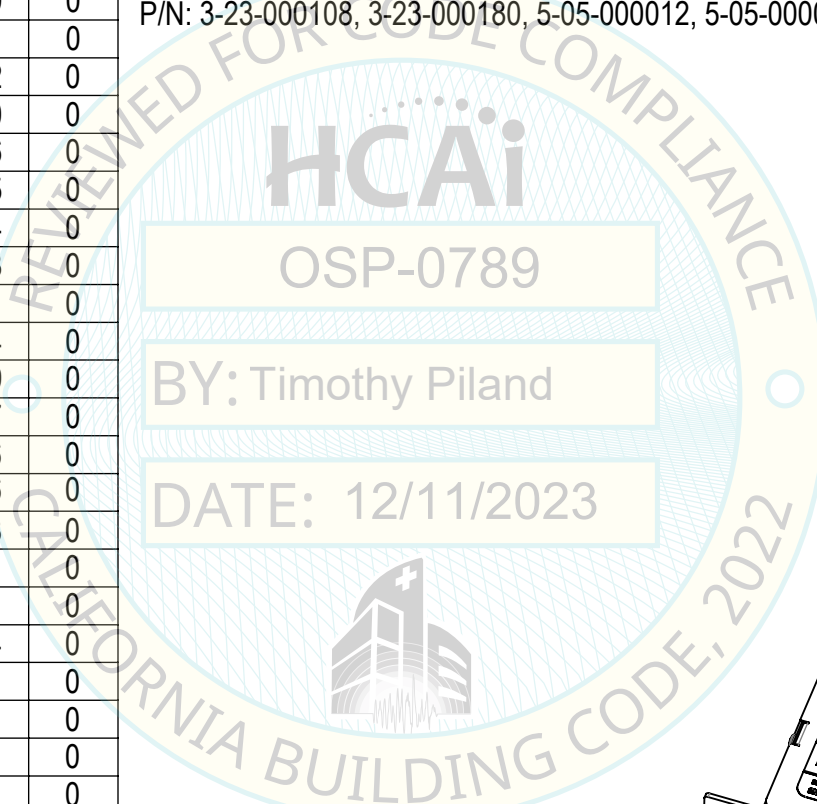
	Minimum	Typical	Maximum	Units
Operating Temperature	0	-	25	C
Humidity	20	-	80	%
Warranty	1	-	-	Years

Installation Notes

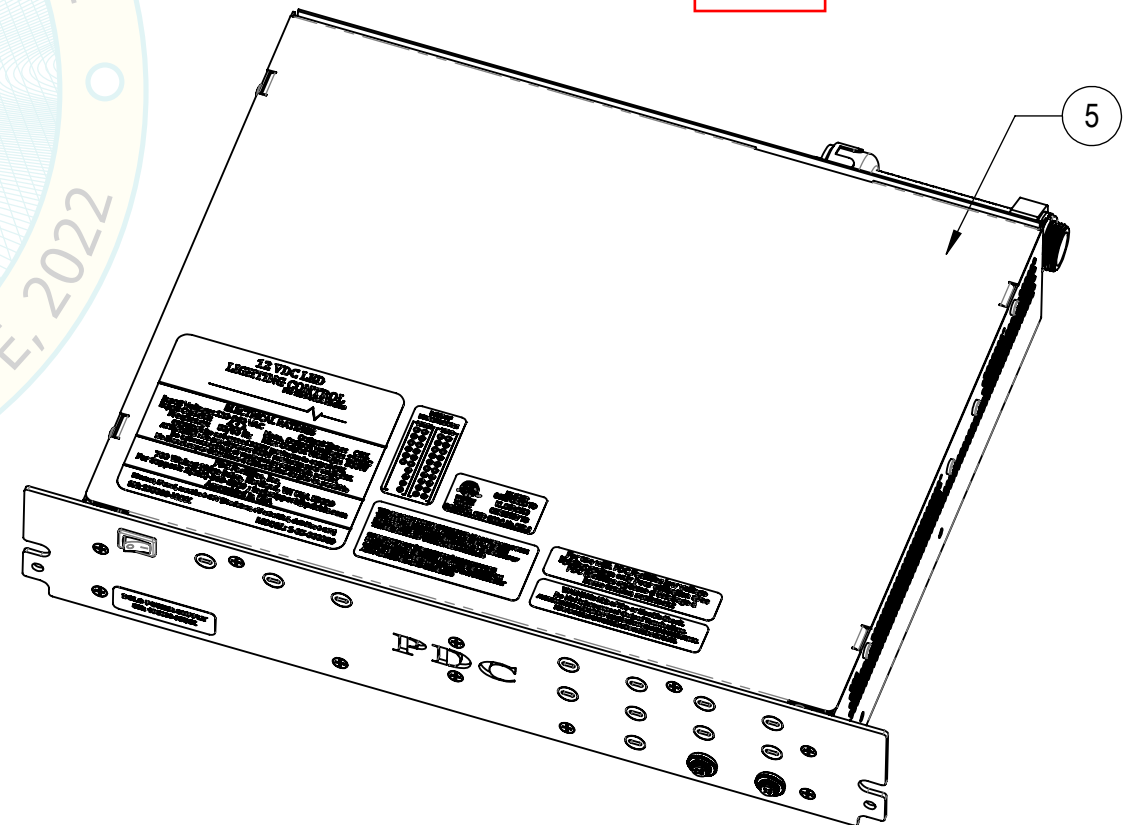
A RF Filter is required for proper operation in the MRI suite
 *PWM is known to cause image artifacts, audible noise and light flicker

Mechanical Diagram



ITEM	QTY.	PART DESCRIPTION	PART NUMBER	LEGACY	REV	ITEM	QTY.	PART DESCRIPTION	PART NUMBER	LEGACY	REV
1	1	SA- DCLC TERMINAL BLOCK SHELF	5-05-000086		1	42	1	DT-LAB SDCLCR 12V 300W LINEAR	2-17-000456		1.1
2	1	SA,PWS, DCLC Drawer Enclosure	5-05-000085		1	43	1	DT,LAB, PDC Date of Man. Label	2-17-000036		1
3	1	SA- Cosel CN3 to CN3 Harness	5-05-000035		1	44	1	DT- ETL DISCLAIMER	2-17-000025		1
4	1	SA- COCEL CN1/2 TO CN1/2	5-05-000012		1	45	1	DT- ORANGE PDC LOGO BACKER	2-05-000036		1
5	1	SA- RGB VIDEO COVER	5-05-000005	807-010	2	46	1	DT - DCLC Drawer Front Panel	2-05-000032		1
6	1	PP-CAT 5E CABLE BLUE 5.0 FT	3-23-000180	900-296	0	47	1	DT- PDC LOGO BACKER PLATE	2-05-000006	807-007	2
7	1	PP- BREAKER 25A 250/50VAC/VDC	3-23-000128	461-032	0	48	1	AS-PCBA 1C DCLC 0-10V TRNSLTOR	1-08-000021		1.3
8	1	PP-CAT 6 CABLE BLUE 1 FT	3-23-000108	800-042	0	49	1	AS- CMRS 10 CHANNEL LIGHT	1-08-000008	890-001	2
9	1	PP- PS 300W 12VDC 27A	3-23-000100	560-108	0	50	1	PP-RESISTOR METAL FILM 453 OHM	3-23-000989		0
10	5	PP- STANDOFF CRNR/EDGE HOLD .5	3-23-000081	800-513	0	51	1	PP-ULTRA FLEX CON 90 3/4 BLK	3-23-000615		0
11	2	PP-TERMINAL FORK YEL #10 STUD	3-23-000077	460-112	0	52	28	PP-ULTRA FLEX COND 3/4IN BLK	3-23-000616		0
12	3	PP-TERMINAL FORK RED #8 STUD	3-23-000076	460-108	0	53	1	PP-ULTRA FLEX CON ST 3/4IN BLK	3-23-000614		0
13	1	PP-AC/DC CONVERTER 12V 5W	3-23-000068	560-199	0	P/N: 3-23-000108, 3-23-000180, 5-05-000012, 5-05-000035 NOT SHOWN					
14	1	PP- FAN 40X15MM 12VDC 7.4 CFM	3-23-000985		0						
15	2	PP-TERM BLOCK PLUG 6POS 5.08mm	3-23-000066	888-082	0						
16	4	PP-TERM BLOCK PLUG 3POS 5.08mm	3-23-000062	888-070	0						
17	1	PP-END PLATE FOR 262 SERIES TB	3-23-000060	800-826	0						
18	4	PP-TERMINAL BLOCK 2P 28-12 AWG	3-23-000059	800-825	0						
19	5	PP-TERMINAL BLOCK 1P 28-12 AWG	3-23-000058	800-824	0						
20	1	PP- POWER ENTRY SWICHD 15A	3-23-000056	800-113	0						
21	1	PP- BULKHEAD RJ45 CAT6 SHIELDE	3-23-000055	800-041	0						
22	1	PP- BREAKER 10A 250/50VAC/VDC	3-23-000053	461-044	0						
23	2	PP-TERMINAL RING RED #8 STUD	3-23-000050	450-109	0						
24	4	PP-TERMINAL QD FEMALE RED .25"	3-23-000048	450-107	0						
25	5	PP-TERMINAL QD FEMALE RED .20"	3-23-000047	450-106	0						
26	1	PP- LED Backlight 23mm x 75mm	3-23-000046	807-006	0						
27	1	PP-SWITCH RKR SPST 15A@125VAC	3-23-000034	801-023	0						
28	1	PP-UL 2108 CSA C22.2#250.0	3-17-000045		0						
29	4	PP- M3x30 Fem-Fem Standoff	3-16-000636		0						
30	4	PP-SCREW PHMSPH M3x6 LG. SS	3-16-000609	421-034	0						
31	2	PP-SCREW PHMPH 4-40 X .5 SS	3-16-000534		0						
32	2	PP-SCREW THMSPH M4x6 LG. SS	3-16-000512		0						
33	6	PP-SCREW PHMSPH M3x20 LG. SS	3-16-000505		0						
34	5	PP-SCREW PHTF # 6-20x.25 LG SS	3-16-000452		0						
35	4	PP-SCREW THMSPH M3x6 LG. SS	3-16-000329	421-019	0						
36	4	PP-SCREW FHMPH M3x6 LG S/S	3-16-000276	440-039	0						
37	6	PP-NUT HEX KEP M3 SS	3-16-000243	415-061	0						
38	7	PP-SCREW PHMPH 8-32 X .38 SS	3-16-000147	420-043	0						
39	2	SCREW- FHMS PH 8-32 x .50 18-8	3-16-000069	420-036	0						
43	8	PP-SCREW FHMPH 8-32 X .31 SS	3-16-000067	420-055	0						
41	2	PP- NUT 8-32 TOOTH NUT 18-8	3-16-000020	415-057	0						

DCLC



REVISIONS			
REV.	DESCRIPTION	DATE	REVISED BY
1.1	3-23-000067 is EOL. It will be replaced with 3-23-0000985.	12/15/2022	RJV
1.2	Added Backlight Resistor to BOM. Updated Labels for UL Standard Updates	2/17/2023	JTC

IPDC FACILITIES, INC.
700 WALNUT RIDGE DRIVE
HARTLAND, WI 53029
PHONE: (262) 367-7700

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INCH TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.03
X.XX ± 0.010 FINISHES 125 ✓
X.XXX ± 0.005
X.XXXX ± 0.0005
FRACTIONS ± 1/32
ANGLES ± 1/2°

BREAK ALL SHARP EDGES

DRAWN BY	JC	02/04/2020
CHECKED BY	RV	2/21/2023
ISSUED BY		
REVISED BY	JC	02/17/2023

DESCRIPTION	AS-SMT DCLCR 12V 300W LINEAR
MATERIAL	SEE BOM
FINISH	N/A

SCALE	1:4	SHEET	1 OF 5
SHEET SIZE	B	REVISION	1.2
DRAWING NUMBER	1-05-000089		

Caring MR Suite® Lighting Control Rack

RGB with 3 - 12 Channel MZPS Controllers



Product Description

The Caring MR Suite® Lighting Control Rack is designed for Caring MR Suite® applications. The Caring MR Suite® Lighting Control Rack is comprised of three 12 Channel Lighting Controllers (1-05-000003- 12 Channel MZPS) and an RGB Linear Controller with DCLC Link (1-05-000085 – RGB Linear). All drive circuitry employs linear regulation and no pulse width modulation (PWM*).

Features	
Wall Mount	Customer Controlled Lighting
12 Channel Configurable Lighting (3)	Remote Connection (Hospital Network Access Required)
PDC Door Activation	Lights Override (optional)
RGB Accent Lighting	Integrated UPS Battery Back Up

Mechanical				
	Minimum	Typical	Maximum	Units
Overall Dimensions Apx.		23 7/8 x 18 7/8 x 21 3/4		inches
Enclosure		Enclosed Steel frame		-
Product Weight Apx.	-	155		lbs

Electrical				
	Minimum	Typical	Maximum	Units
Input Voltage	100	-	240	Vac
Input Current	-	-	22.5	A
Input Power	-	-	2250	W
Input Frequency	47	-	63	Hz
Heat	-	-	7677	BTU/h
Power Factor at 120Vac Input	0.95	-	-	-
Inrush Current at 120Vac Input	-	-	40	A
UPS Backup Runtime	90	-	-	Minutes

Note: Light fixture runtime is dependent on following the UPS manufacturers battery maintenance schedule
 Note: UPS Backup not tested/Listed to UL 924 Standard For Emergency Lighting And Power Equipment
 Note: Runtime based on two 12 Channel outputs running at 1/2 power
 Note: See site installation drawings for locations of emergency channels

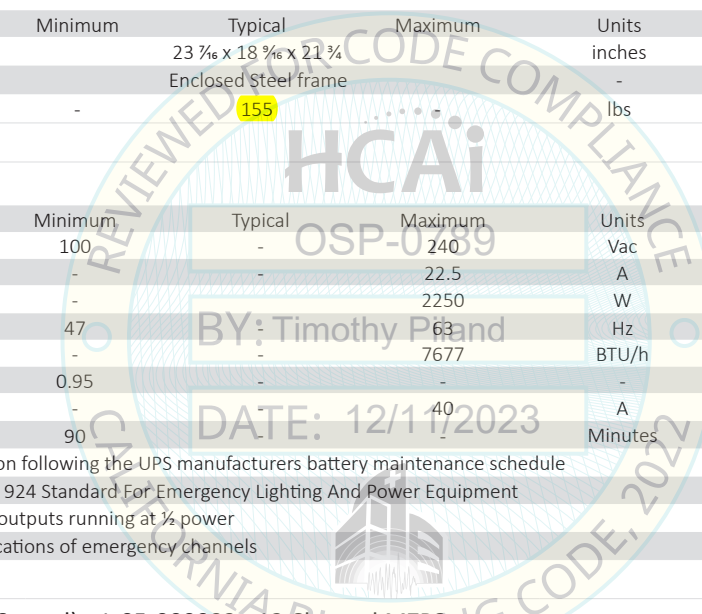
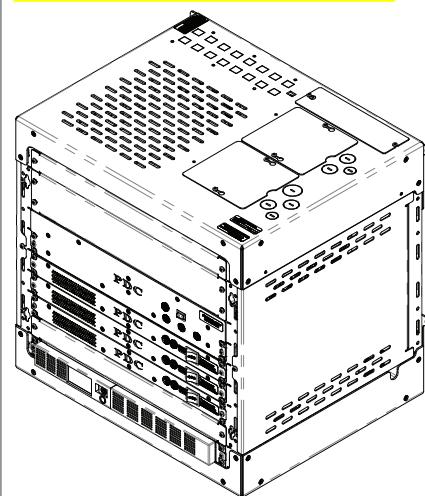
Electrical Output per Channel (36 total) - 1-05-000003 - 12 Channel MZPS				
	Minimum	Typical	Maximum	Units
Output Voltage	12	-	48	Vdc
Output Current	665	700	735	mA
Output Power	-	-	33.3	W

Electrical Output per Channel (max. 3 channels) - 1-05-000085 RGB Linear				
	Minimum	Typical	Maximum	Units
Output Voltage	10	12	13.5	Vdc
Output Current (constant current)	-	15 x 1 Output	-	A
Output Power	-	-	188	W

Compliance				
	Minimum	Typical	Maximum	Units
1-05-000003- 12 Channel MZPS	-	-	ETL LISTED	UL 2108 CSA C22.2 #250.2
1-05-000085	-	-	ETL Listed	UL 2108 CSA C22.2 #250.2
RoHS	-	Pending	-	2011/65/EU

1-06-000121 UUT-2a,b

- Includes the following:
- 1-05-000085 – RGB Linear
 - 1-05-000003 - 12 Channel MZPS
 - 3-23-000964 - 5 Port Network Switch
 - 3-23-000104 - UPS Battery Back Up



PDC Specification Submittal	
Job Name:	
Job Number:	
Model Numbers:	Fixture Type:



Environmental

	Minimum	Typical	Maximum	Units
Operating Temperature	0	-	25	C
Humidity	20	-	80	%
Warranty	1	-	-	Years

Installation Notes

A RF Filter is required for proper operation in the MRI suite

*PWM is known to cause image artifacts, audible noise and light flicker

Mechanical Diagram

